Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY R PHARM - SEMESTER - 1 FXAMINATION - SUMMER -2010

D.FHARWI - SEWIESTER- T EAAWIINATION -	SUMMER -2019	
Subject Code: BP102TP	Date: 30-05-2019	
Subject Name: Pharmaceutical Analysis I		
Time: 10:30 AM TO 01:30 PM	Total Marks: 80	
Instructions:		
1. Attempt any five questions.		
2. Make suitable assumptions wherever necessary.		
3. Figures to the right indicate full marks.		

Q.1	(a)	Answer the following: 1. Define: precision, accuracy, oxidation, ligand 2. Disodium edetate is a hexadentate ligand. Comment.	06
	(b)	3. Differentiate iodimetry and iodometry. What is buffer solution? Derive Henderson Hasselbach equation for finding pH of buffer solution?	05
	(c)	Define Hydrolysis and derive equation for finding pH of aqueous solution of acetic acid with ammonium hydroxide	05
Q.2	(a) (b) (c)	Write note on sources of impurities in medicinal agents. Describe diazotization nitrite titration Discuss method of detecting end point by potentiometry titration.	06 05 05
Q.3	(a) (b) (c)	Give ideal properties of reference electrode. Write note on SCE. Describe factors affecting conductance Write scope of pharmaceutical analysis. Enlist different analytical techniques.	06 05 05
Q.4	(a) (b)	Write a note on Volhard's method Give comment 1. Mohr's titration is carried out in acidic media. 2. Water is differentiating solvent for HCl and CH ₃ COOH. 3. Starch indicator should be freshly prepared. 4. Acetic acid is added in preparation of perchloric acid. 5. Electrolyte solution is used for wash precipitate Enumerate different types of errors and write in detail about methods of minimizing errors	06 05
Q.5	(a) (b) (c)	Define limit test. Write a principle and reaction of limit test for chloride or iron. Explain about construction and working of dropping mercury electrode Write in brief about masking and demasking agents	06 05 05
Q. 6	(a) (b) (c)	Enumerate different types of redox titrations and mention about application of it. Explain neutralization theory for acid base indicators What is Argentometric titration? Describe Mohr's method for determination of	06 05 05
Q.7	(a) (b) (c)	Chloride Write a brief note on non-aqueous titrations Explain various precipitation techniques in gravimetric analysis Explain common ion effect and diverse ion effect with example	06 05 05
